

Morrison Planetarium

Sky Shows

Giants of the Sun reveals the largest and most spectacular of all the sun's children: Jupiter, Saturn, Uranus, and Neptune. These gaseous colossi are surrounded by myriad moons, delicate rings and a veil of mystery. Two have already been visited by space probes from Earth, and even now Voyager 2 is hurtling toward a meeting with Uranus. What secrets will it uncover?

Giants of the Sun will continue through December 8 on weekdays at 2:00 p.m. and weekends and holidays at 1:00, 2:00, 3:00 and 4:00 p.m.

Exploring the Skies of the Season gives everyone a chance to rise above City fog and lights to enjoy the night skies of October. Find out what's up in the heavens on Saturdays, Sundays and holidays at 12 noon.

Laserium

Laserium offers high-tech entertainment using a powerful 1-watt krypton laser and Morrison Planetarium's newly renovated stereo sound system.

Crystal Odyssey is a program of classical music by Bach, Saint-Saens, Grieg, Mussorgsky and others against a backdrop of lyrical weaving lasers. Crystal Odyssey is presented on Saturdays and Sundays at 5:00 p.m.; tickets are \$4 for adults and \$3 for children 6-12 and seniors.

Led Zeppelin — In The Beginning is a new laser show featuring the music from the first four albums of this ever-popular English group. Performances are Friday, Saturday and Sunday evenings at 7:30.

Dark Side of the Moon lights up the planetarium with the upbeat music of Pink Floyd on Friday, Saturday and Sunday evenings at 9:00 with late shows on Friday and Saturday at 10:30 p.m.

Laser Space probes the New Age space music of Phillip Glass, Iasos, Peter Michael Hamel and Michael Stearns on Thursday evenings at 9:00.

You can bring your own FM Walkman type radio to all Laserium concerts and choose your own listening volume.

Tickets for Led Zeppelin, Dark Side of the Moon and Laser Space are \$5 for adults and \$3 for children 6-12 and seniors. Children under six are not admitted to Laserium shows. There are discount prices for groups of ten or more. Members are reminded that their complimentary planetarium passes are not valid for Laserium shows. Tickets are available at the planetarium one-half hour before showtime.

Show titles are subject to change without notice.

For information on Laserium call 221-0168.

Planetarium Concert Series

This Fall, the plucked strings of an Indian sitar and soothing woodwind harmonies transform Northern California's largest indoor universe in a unique concert environment. Music by classical European and Indian composers are performed live under stellar vistas as only the Morrison Planetarium can present them.

An Evening of North Indian Classical Music

Tuesday, October 22 8:00 p.m.

Indian classical music offers an exciting blend of ancient traditions and spontaneous improvisation. Peter van Gelder, sitar; Bruce Hamm, sarod; and Benjamin Wertheimer, tabla; will play *ragas* (melodic forms) and *talas* (rhythmic cycles) for the appropriate time and season. Members of the group are long-time students of the Ali Akbar College, and each has worked extensively with their teacher, Ustad Ali Akbar.

The Sonante Woodwind Quintet Tuesday, November 19 8:00 p.m.

The Sonante Woodwind Quintet will present a captivating program of music by Haydn, Ligetti, and Francaix. These five musicians, Stephen McComas, Caryl Mae Scott, Dorothy Scott, Jan Bures, and Kathleen Johannessen, are principal winds of the Oakland Chamber Orchestra and have been exciting Northern California audiences for over six years with their stirring performances.

Tickets for each concert are \$4 for Academy members and \$6 for non-members. Tickets may be purchased either at the door or in advance by writing to the Morrison Planetarium, California Academy of Sciences, Golden Gate Park, San Francisco 94118. Please enclose a self-addressed, stamped envelope.

For information call 221-0168.

Inside the Academy

Leroy Joseph, who has greeted Academy visitors to the cafeteria with a contagious smile and unfailing good humor for more than 22 years, has announced his plans to retire at the end of October. Leroy plans to turn his good spirits and optimistic view on the San Francisco 49ers now that he can be a full-time fan. If the result is anywhere near the effect he has had on Academy staff and visitors for the last two and a half decades, San Francisco can expect to have a winning team every season!



Science In Action - the live, informal science presentation that is done by a staff member every weekday in Cowell Hall has been awarded a grant by Pacific Telesis. This generous donation will allow the program to soon expand to weekends and to purchase new equipment for getting close-up views of some of the smaller creatures and features of the natural world.

The Academy Archives wants you!

Perhaps you have cleaned your attic recently and found an invitation to the Academy for the opening of Steinhart Aquarium or a letter to your grandmother from Alice Eastwood. The Academy Archives is in the process of being reorganized and is actively looking for memorabilia relating to our 132-year old institution. Among the desired additions to the archives are objects that feature the Academy's logo (especially the early versions), advertising material, and objects, photographs and documents relating to past expeditions. If you think you may have something of interest to us, please contact Academy Archivist Johan Kooy, 221-5100, ext. 260.

Lend me your ears! Become a radio star and help the California Academy of Sciences. If on your world travels you have made field recordings of birds, animals, music, local chatter, etc., why not submit them to "The World Ear Project?" This monthly program on KPFA 94.1 FM, the listener sponsored station in Berkeley, airs such recordings during their special two hour broadcast on the last Monday of each month.

If you are already a listener, you have heard our own Luis Baptista and Bob Drewes during the August show; if not, tune in on September 30 or October 28 and learn about the world through your own ears!

If you have something that might be of interest to the program, send the recording to World Ear Project / KPFA FM Radio, 2207 Shattuck Avenue, Berkeley, CA 94704, Attn: Susan Stone. If you like, you will be interviewed about your contribution live or by phone. In exchange, KPFA is helping promote Academy memberships and expeditions.

Special Lectures

The Future of the California Academy of Sciences — Won't You Help?

On Tuesday, October 8 at 6:30 p.m., Executive Director Dr. Frank Talbot will discuss the problems and opportunities of the oldest scientific institution in the West — your own California Academy of Sciences. As we stand 15 years before a new century with 9,000,000 insects in Entomology; 1,500,000 fish in Ichthyology; growing collections in all research departments; expanding membership, special programs and exhibits; a baby boom and a purported crisis in science education, the California Academy of Sciences is taking a long, hard look at itself to see how it can meet the demands of the 21st century. Be part of the decision. Join us for a "Look At The Future" in Morrison Auditorium just before the special lecture by David Keith Jones on Kenya. We'll take as many suggestions and comments as time allows at this first meeting, then meet again to review our combined ideas. Our members are our best consultants — try and attend this meeting!

The Faces of Kenya

David Keith Jones
Tuesday, October 8 8:00 p.m.
Morrison Auditorium Free

Isak Dinesen wrote of Kenya, "The views are immensely wide. Everything you saw made for greatness and freedom, and unequalled nobility." Today's Kenya is a country of startling contrasts — cosmopolitan Nairobi with its colorful blend of many peoples and international flavor, the white glaciers of Mt. Kenya, the vast open spaces of the savannah with herds of countless wildebeests, and the white sandy beaches of the coastline. Photographer David Keith Jones has made a life's work of capturing the flavor of a rapidly changing country. Author of four books including the award winning "*Faces of Kenya*," Jones takes listeners on a one hour safari through the land that has always held a special fascination for travellers.

Within A Rainbowed Sea

Chris Newbert
Tuesday, October 22 8:00 p.m.
Morrison Auditorium Free

"If being in the ocean is like drifting in outer space, exploring a reef is akin to landing on a strange planet. It is a fantastic garden, an integrated community inhabited by bizarre creatures who exhibit the most amazing adaptations to their environmental pressures." Whether you are a veteran diver or can't brave getting your face wet, this slide lecture by world-renowned photographer Chris Newbert will emblazon on your mind unforgettably brilliant images of the sea. Gene Shalit captured the reaction of readers everywhere when he described Newbert's *Within A Rainbowed Sea* as "unlike anything I have ever seen."



A special signed and slipcased author's edition of *Within A Rainbowed Sea* including six frameable prints will be on sale for \$75. There will be no members discount as this event is a benefit for the Natural History Museum and Aquarium.

Report From Space Shuttle Challenger

Dr. Karl Henize, Astronomer/Astronaut
Friday, November 1 8:00 p.m.
Morrison Auditorium Free

From July 29 to August 6, 1985, Dr. Karl Henize experienced what the rest of us can only imagine. On board the space shuttle Challenger on its 8th mission and the 50th American manned spaceflight, he played a key role in one of the most ambitious scientific missions ever — Spacelab 2. Overcoming the adversity of two launch delays, a near-abort shortly after take-off, and cranky performance of instruments, the mission was turned into a better than 80% success, making important discoveries in solar, cosmic-ray, and infrared astronomy.

This opportunity to share Dr. Henize's adventure is co-sponsored by the San Francisco Amateur Astronomers.

Special Exhibits

DinoFest '85 is in its final month at the Natural History Museum and Aquarium. The towering *Allosaurus* skeleton and its realistic model counterpart, the ferocious head of a *Tryrannosaurus rex*, and the newly completed lifesize model of a *Quetzalcoatlus* which soars overhead in Cowell Hall, have delighted visitors from around the world. Jim Gary's 20th Century Dinosaurs fashioned from old car parts and a animated short film "Dinosaur" add a touch of humor to this informative exhibit.

DinoFest '85 is made possible by a grant from the people at Chevron.

California Gold is the historic collection from the State of California that has not been on public display since it was removed from the Ferry Building in 1983. From delicate pieces that look like the proverbial spun gold to a football-sized crystalline form, these specimens tell the story of the 1849 Gold Rush which changed the shape of the West. **California Gold** is funded by a grant from Homestake Mining of San Francisco and will be on display through December.

Anglers All is an exhibit to gladden the heart and soul of every fisherman. Rods and reels from antique to high tech, books, paintings, memorabilia and hand-tied flies galore reflect every aspect of this graceful sport. Anglers All can be seen in Hohfeld Hall through October 27.

Under The Canopy captures the lush rainforests of the world with brilliant photographs of the plants and animals that inhabit this vital and rapidly vanishing resource. This colorful exhibit can be seen in Cowell Gallery through December.

Attention Runners! A RUN TO THE FAR SIDE



On December 1, the first visitors to see the new exhibit, "**The Far Side of Science**" by Gary Larson will be the lead finishers in "The Run to the Far Side." This 10K and 5K fun run will begin at 9:00 a.m. outside the Academy and end at the museum with Gary Larson himself handing out the awards to the winners. Entry forms can be found in the October and November issue of *The Schedule* and in the November issues of *City Sports*. You can also pick up an entry form at the information desk of the museum.

For non-runners who want to be in on the fun, we need volunteers, 18 years and older, to staff the race course and work registration and finish line activities. All volunteers will receive a special edition Gary Larson t-shirt on race day. (Limited to the first 100 volunteers.)

"The Run To The Far Side" is a benefit for the California Academy of Sciences and is a certified race organized by The Winning Team.

Start training and spread the word!

For information call the Run Office at 221-5100.

Young Audiences

This month we begin a new series of performing arts programs for children, presented on the last Wednesday and Sunday of each month.

These programs have been made possible by a grant from the McKesson Foundation, Inc. to Young Audiences of the Bay Area, a non-profit organization sponsoring art programs in local schools.

Sunday, October 27 1:00 p.m.
Wednesday, October 30* 11:00 a.m.

Johnny Coppola and Friends, one of the Bay Area's finest jazz groups, presents "An Introduction to Jazz," demonstrating blues, Latin, modern and rock styles.

*This Wednesday performance is for school groups and is by reservation only. Please call Young Audiences at 495-8380 for information.

The Month At A Glance

OCTOBER

- 5 Traditional Arts - **Devil Mountain Jazz Band**
- 8 **Dissussion on the future of the California Academy of Sciences**
- 8 Lecture - **The Faces of Kenya**
- 9 Members' Meeting
- 10 Members' Meeting
- 12 Traditional Arts - **Fly tying**
- 19 Traditional Arts - **DinoPuppets**
- 22 Lecture - **Within a Rainbowed Sea**
- 22 Planetarium Concert
- 24 **Evening of the Dinosaurs**
- 26 Traditional Arts - **DinoTales**
- 27 Young Audiences - **Johnny Coppola**
- 27 Last day of **Anglers All**

NOVEMBER

- 1 Lecture - **Space Shuttle Challenger**

Traditional Arts

The Bay Area is an exciting blend of colorful cultures and ethnic groups from around the world. Every Saturday at 1:00 p.m. one of these groups shares some aspect of its cultural heritage with visitors to the Natural History Museum and Aquarium. The Traditional Arts Program is funded by a grant from the Paul L. and Phyllis Wattis Foundation.

October 5 — Relive the Golden Age of Jazz and the distinctive sounds of New Orleans with the Devil Mountain Jazz Band.

October 12 — Fly tying, the art form of replicating living insects to lure fish, will be demonstrated by Keith Barton. Fly tying is highlighted in the current exhibit "Anglers All."

October 19 — Contributing to DinoFest '85, Betty Polus and the Dragonfly Theater present the DinoPuppet Show using hand puppets of batiked fabric. Come and watch the battle between *Triceratops* and *Tyrannosaurus rex*.

October 26 — More dinosaurs! Storyteller Ken Haven takes us on a prehistoric journey into the world of the great reptiles with his DinoTales.

Adult Education and Travel

The Adult Education Office offers a variety of classes and study tours on a wide range of fascinating natural history topics. For information call (415) 221-4716.

Channel Islands for Scuba Divers

Trip: December 3-6
Lecture: November 20 7-9 p.m.
Cost: \$390 members, \$450 non-members excluding transportation to Santa Barbara
A place aboard the new 80' *Vision* to the unforgettable Channel Islands can be reserved by sending a non-refundable \$50 deposit by October 15.

Make Your Own Telescope

October 1-November 19

Organic Evolution

October 8-November 19
and October 10 and November 21

Academy Expeditions

Plan your 1986 travels now. There are diverse destinations with adventure and education for every traveler. For information call the Academy Travel Office at (415) 221-5100.

Back by popular demand! Two different expeditions to the Grand Canyon.

WILDERNESS GRAND CANYON

April 6-11

This expedition provides members the opportunity to visit seldom-seen portions of the Grand Canyon on a five day river raft and hiking adventure. Starting at Pierce Ferry, enter the Grand Canyon through the dramatic gates of the Grand Wash Cliffs, moving up the river to Separation Canyon by motorized rafts, then floating down by oar power. Short day hikes into pristine areas such as Columbine Falls, Indian Caves and Gneiss Canyons are supplemented with informal lectures on the geology, archaeology, and history of the canyon. Led by Geologist Jean De Mouthe, this tour is for those who wish a more vigorous travel experience. Cost is \$545 plus round trip air from San Francisco to Las Vegas.

GRAND CANYON WHITEWATER EXPEDITION

August 17-31

A superb wilderness experience that will take participants from Lee's Ferry (Mile Zero of the Canyon) to Whitemore Wash near Lake Mead. This special tour is made in dories - decked, compartmented, unsinkable rowboats that measure 17' by 7'. Each dory is captained by a professional guide and carries four participants - an ideal way to experience the thrill of some of the greatest river rapids in the world. Time actually spent floating is less than four hours per day. Numerous half-day and all day side trips highlight exploration of the Canyon: Upper Elves Chasm, Royal Arch Creek,

Monument Creek, Stone Creek, Thunder River, Havasu Creek and more. Cost is \$1396 plus air fare to Las Vegas. This trip is recommended for those who have camping experience and are in excellent physical condition.

Other 1986 Expeditions include:

THE NATURAL HISTORY OF COSTA RICA

February 5 - 19
\$2295 including air fare from Los Angeles

HALLEY'S COMET AND GAMEWATCHING IN NAMIBIA AND BOTSWANA

April 4 - 21 (Wait list only)
\$3298 land and \$1587 air from New York

ARIZONA IN THE SPRING: Sonoran Desert and the Chiricahuas

April 12 - 20
\$1290 land and \$170 air fare

ANTIQUITIES AND TALL SHIPS: A cruise through the Mediterrean

May 24 - June 8
\$4945 to \$8445 including air fare

KENYA ADVENTURE SAFARI

June 4 - 18
\$1745 land plus \$1400 air fare

A NATURALIST'S AUSTRALIA

August 14 - September 7
\$3100 land plus \$1816 air fare

ALASKAN ODYSSEY CRUISE

August 30 - September 11
\$2810 - \$3990 cruise plus air fare

AMERICA'S OWN: Chesapeake Bay and the Smithsonian

September 30 - October 11
\$2400 - \$2542 plus \$298 air fare

JUNGLE RIVERS OF SOUTH AMERICA: The Orinoco and the Amazon

September 30 - October 15
\$3990 to \$8690 plus \$1220 air fare

A WILDLIFE SAFARI TO INDIA AND NEPAL

October 28 - November 20
\$3452 plus \$1805 air fare

ARCHAEOLOGICAL ADVENTURE: El Tajin, Central Mexico and Oaxaca

November 2 - 17
\$1790 plus \$390 air fare

October Members' Meeting

Dates & Times

Matinee, 2:00 p.m., Wednesday,
October 9

Evenings, 8:00 p.m., Wednesday and
Thursday, October 9 and 10

Place

Morrison Auditorium

Speaker

John Pearson

Subject

Calligraphy of Nature

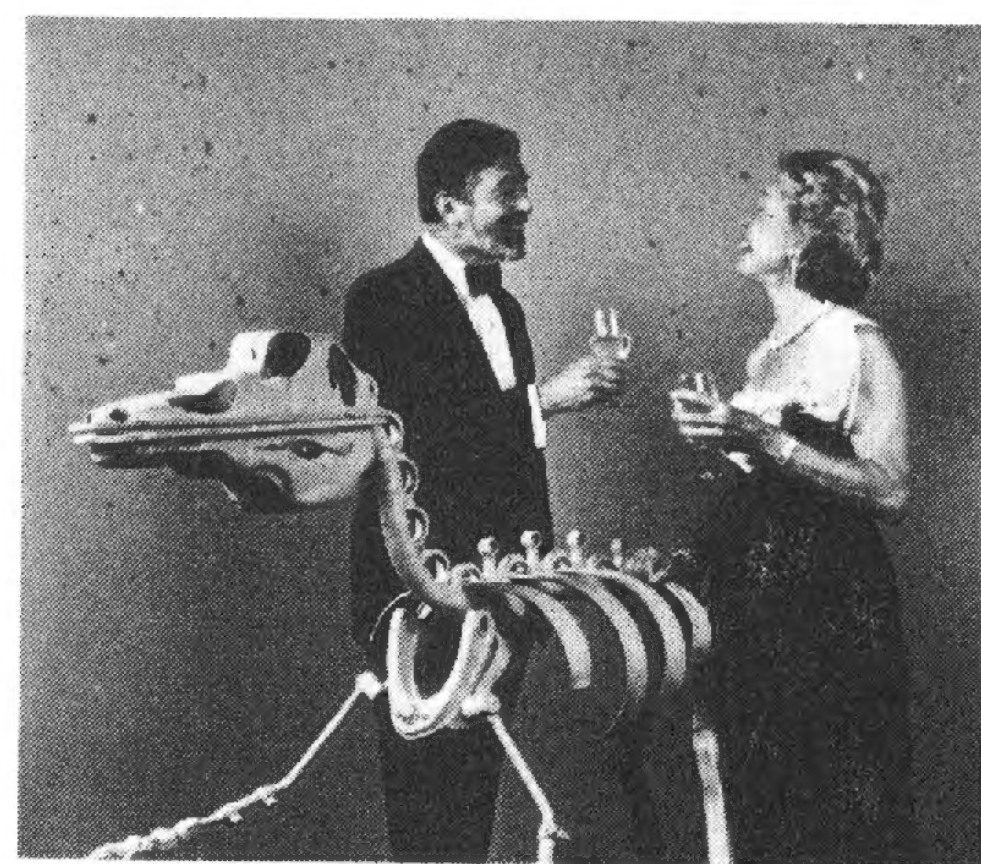
The backroads of the world offer travelers a look back in time at a simpler life surrounded by unspoiled, natural beauty. John Pearson will lead Academy members on a tour along the backroads of the United States, Mexico and Europe and through the great National Parks and Monuments, blending images of nature with classical and jazz accompaniment. The Berkeley Mandolin Ensemble will perform live for the evening meetings.

John Pearson, author of four books including *Calligraphy of Nature*, has been performing "visual concerts" for 15 years.

Your membership card admits you through the Wattis Hall or Cowell Hall entrances for the afternoon program and through the Cowell Hall entrance for the evening meeting. Please be prepared to show your membership card at the auditorium door for the matinee presentation since the museum is open to the public at that time.

Sneak Preview: November 13 and 14, Dr. James Affolter will present "Peru: A Land of Contrasts"

Special Events

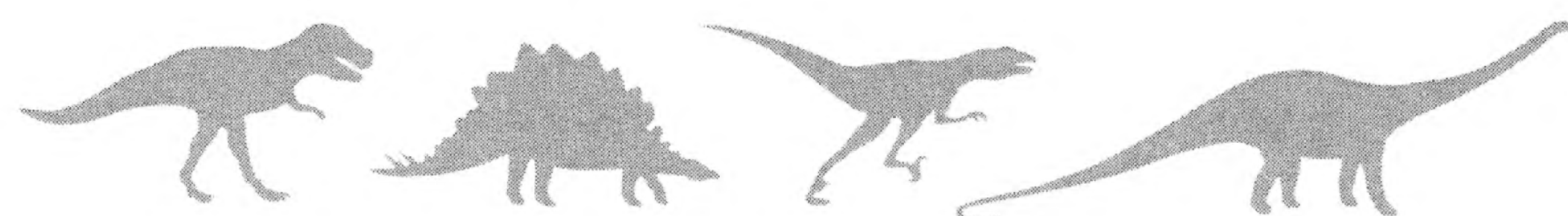


Join
**Dr. Frank Talbot,
Harriet Quarre
(co-chair), and
all your friends
at Night of the
Dinosaurs!**

Put on your dancing shoes for **Night of the Dinosaurs** - a gala, black tie evening of dining and dancing at the Natural History Museum and Aquarium. The festive mood for the evening will be set by jazz pianist Mark Levine, the steel drums of The Harmonics, and the western-rock sounds of Hearts on Fire who will perform against a backdrop of classic dinosaurs movies. The big band sound of the Home Savings of America Band, under the direction of Dick Crest will cap the evening. The museum wide festivities will take place under the watchful eyes of the most upscale creatures in town - the dinosaurs of **DinoFest '85**. Partygoers can come in their 20th century finest or as their favorite dinosaur. Complimentary wine and champagne will flow in the Original Fern Bar, and Ice Age Cocktails and a Mammoth Buffet will delight everyone.

Tickets begin at \$100 per person. Proceeds from this event will be used to buy a herd of *Deinonychus*, a fearsome predator that lived 140 million years ago, for the museum's new Hall of Life Through Time.

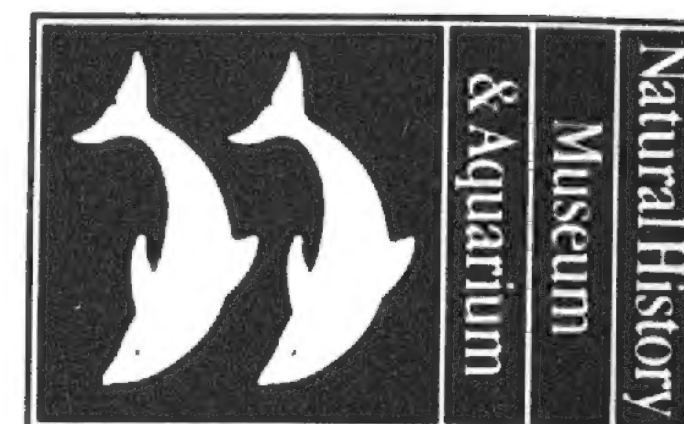
Mr. John R. Grey is the General Chairman for the Night of the Dinosaurs; Mrs. Richard H. Peterson and Mrs. Harriet Quarre are co-chairs for the Dinner Committee. For more information and an invitation call the Dinosaur Office at (415) 221-5100.



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from 10 until 5



California Academy of Sciences

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Natural History
Museum
& Aquarium



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